ACADEMIC SENATE

~~**Committee on Academic Planning and Review**~~

ANNUAL PROGRAM REPORT

College	Science
Department	Engineering
Program	M.S. Construction Management
Reporting for Academic Year	2022-2023
Last 5-Year Review	22-23
Next 5-Year Review	2027-2028
Department Chair	Farnaz Ganjeizadeh
Date Submitted	10/10/2023

SELF-STUDY *(suggested length of 1-3 pages)*

A. Five-Year Review Planning Goals

1. The new STEM designation for the program has the potential to attract international students after the pandemic comes under control.

2. *Faculty:* The faculty that support this program are also supporting the construction management program at the undergraduate level. The faculty are; Farzad Shahbodaghlou, Cristian Gaedicke, and Bita Astaneh-Asl.

3. *Research:* The Construction Management faculty are active in research and have been successful in securing funds for their research. The faculty plan is to aggressively pursue funding opportunities, specifically in areas related to the advancement of construction/engineering education. Summer STEM camp for high school students from Contra Costa County and application of virtual reality in construction.

4. *Equipment:* Through A2E2 annual funding and the normal refresh cycle of computers by IT, we are keeping the Construction Management Laboratories current. During 2022-23 academic year engineering faculty received $55,000 in A2E2 funding.

5. *Enrollment*: During the past couple of years the enrollment in MS construction management has increased significantly to an all-time high of 101.

Enrollment Breakdown

5.Assessment indicators	a-Midterm exam question; e- Final exam performance
6.Assessment instrument	Program rubric
7.Time (which semester(s))	a-Spring 2023
8.Responsible person(s)	a-Prof. Gaedicke
9.Ways of reporting (how, to who)	The results (qualitative and quantitative) will be reported by faculty to the department chair via completion of the course Faculty Self-Assessment form.
10.Ways of closing the loop	Interaction between chair, faculty and industry advisory board

Summary: Students Analyze different types of risk and assess their likelihood and impact; Evaluate the use of different quantitative analysis techniques such as Monte Carlo simulation to assess the overall effect of risk at a project and corporate level, thus facilitating decision making under uncertainty.

The student mid-term and final exam results were high grade of 100% and the low was 67% with an average of 87%.

Program improvement:

The results of this assessment will be discussed in the next May Industry Advisory Board meeting and changes to the course and program will be implemented in the offering of this course and other courses.

Assessment Plans for Next Year:

1. Which PLO(s) to assess *2. Is it aligned with an ILO?*	PLO b - use effective communication skills to solve practical construction problems, explain and defend the application of advanced construction practices associated with planning, staffing, scheduling and controlling construction projects. (ILO 2,4) Yes, ILO 2,4

Reflections on Trends and Program Statistics:

Request for Resources (suggested length of 1 page)

Upkeep of the laboratory software and hardware, access to large computer lab/classes for some of the courses.

Request for Tenure-Track Hires:

We see the need for an additional TT faculty to be able to serve the growing number of students in the program.